

WHAT IS CLAIMED IS:

- Sub a' 1. A ball motion measuring apparatus comprising:  
a CCD camera for photographing a flying ball to obtain original image data;  
a calculating section for carrying out a magnifying process over a part including a ball image in an original image, thereby calculating magnified image data; and  
a display section for displaying a magnified image based on the magnified image data.
2. The ball motion measuring apparatus according to claim 1, wherein the CCD camera has a horizontal view angle of 10 degrees or more.
3. A ball motion measuring apparatus comprising:  
a CCD camera for photographing a flying ball to obtain original image data; and  
a calculating section for correcting a coordinate error made by a distortion of an original image which is caused by a lens of the CCD camera, thereby calculating correction data.
4. The ball motion measuring apparatus according to claim 3, wherein the coordinate error is corrected based on a correction ratio determined by a distance from a center of the original image.
5. The ball motion measuring apparatus according to claim 3, wherein the CCD camera has a horizontal view angle of 10 degrees or more.
6. A ball motion measuring apparatus comprising:  
a CCD camera for photographing a flying ball to obtain original image data; and  
a calculating section for correcting a coordinate error made by a shift of a direction of a ball image from a direction of an optical axis of the CCD camera, thereby calculating correction data.
7. The ball motion measuring apparatus according to claim 6, wherein the correction of the coordinate error serves to convert data obtained from an original image into data obtained by photographing a front part of the ball at infinity.

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8. The ball motion measuring apparatus according to claim 6, wherein the CCD camera has a horizontal view angle of 10 degrees or more.

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